

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number  
**WO 2005/070901 A2**

(51) International Patent Classification<sup>7</sup>: **C07D 239/54**,  
A61K 31/513, A61P 31/18

(21) International Application Number:  
PCT/US2005/000815

(22) International Filing Date: 11 January 2005 (11.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/536,010 12 January 2004 (12.01.2004) US

(71) Applicant (for all designated States except US): **GILEAD  
SCIENCES, INC.** [US/US]; 333 Lakeside Drive, Foster  
City, CA 94404 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JIN, Haolun**  
[CA/US]; 293 Billingsgate Lane, Foster City, CA 94404  
(US). **KIM, Choung, U.** [US/US]; 1750 Elizabeth Street,  
San Carlos, CA 94070 (US).

(74) Agents: **WONG, James, J.** et al.; Gilead Sciences, Inc.,  
333 Lakeside Drive, Foster City, CA 94404 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

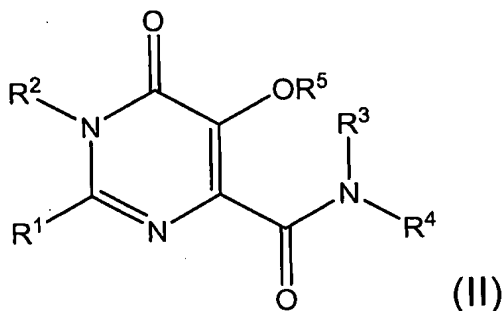
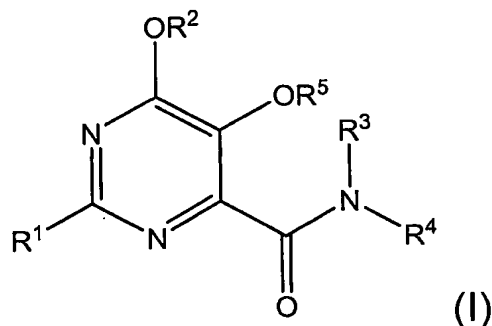
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished  
upon receipt of that report

[Continued on next page]

(54) Title: PYRIMIDYL PHOSPHONATE ANTIVIRAL COMPOUNDS AND METHODS OF USE



(57) Abstract: Pyrimidine I and pyrimidinone II phosphonate  
compounds and methods for viral inhibition are disclosed. The  
compounds include at least one phosphonate group covalently  
attached at any site.

WO 2005/070901 A2



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*